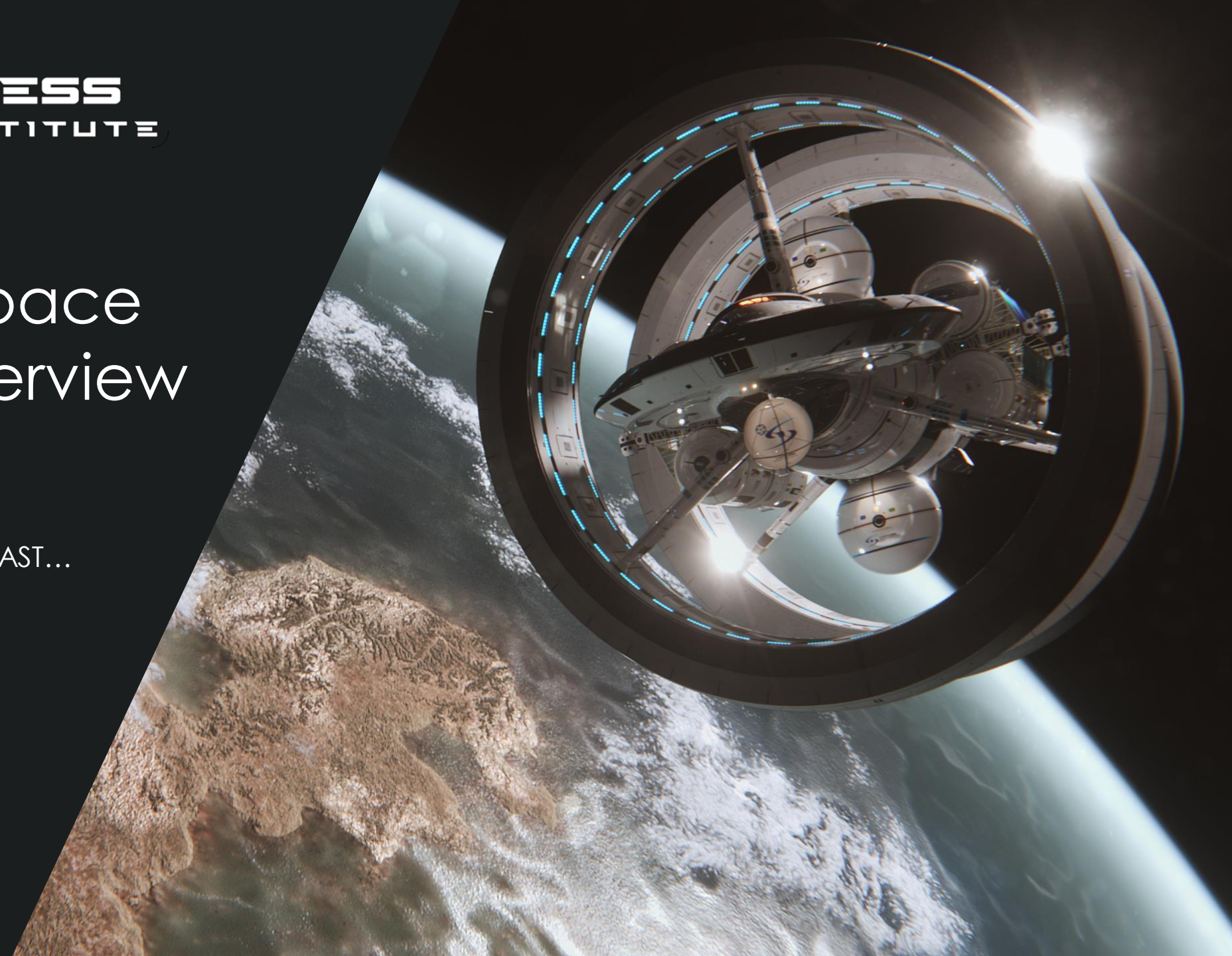
LIMITLESS
SPACE INSTITUTE

Limitless Space Institute Overview

…GO INCREDIBLY FAST…



Vision Statement

Advance human exploration
beyond our solar system

Mission Statement

Inspire and **educate** the next generation to travel beyond our solar system and to support the **research** and **development** of enabling technologies

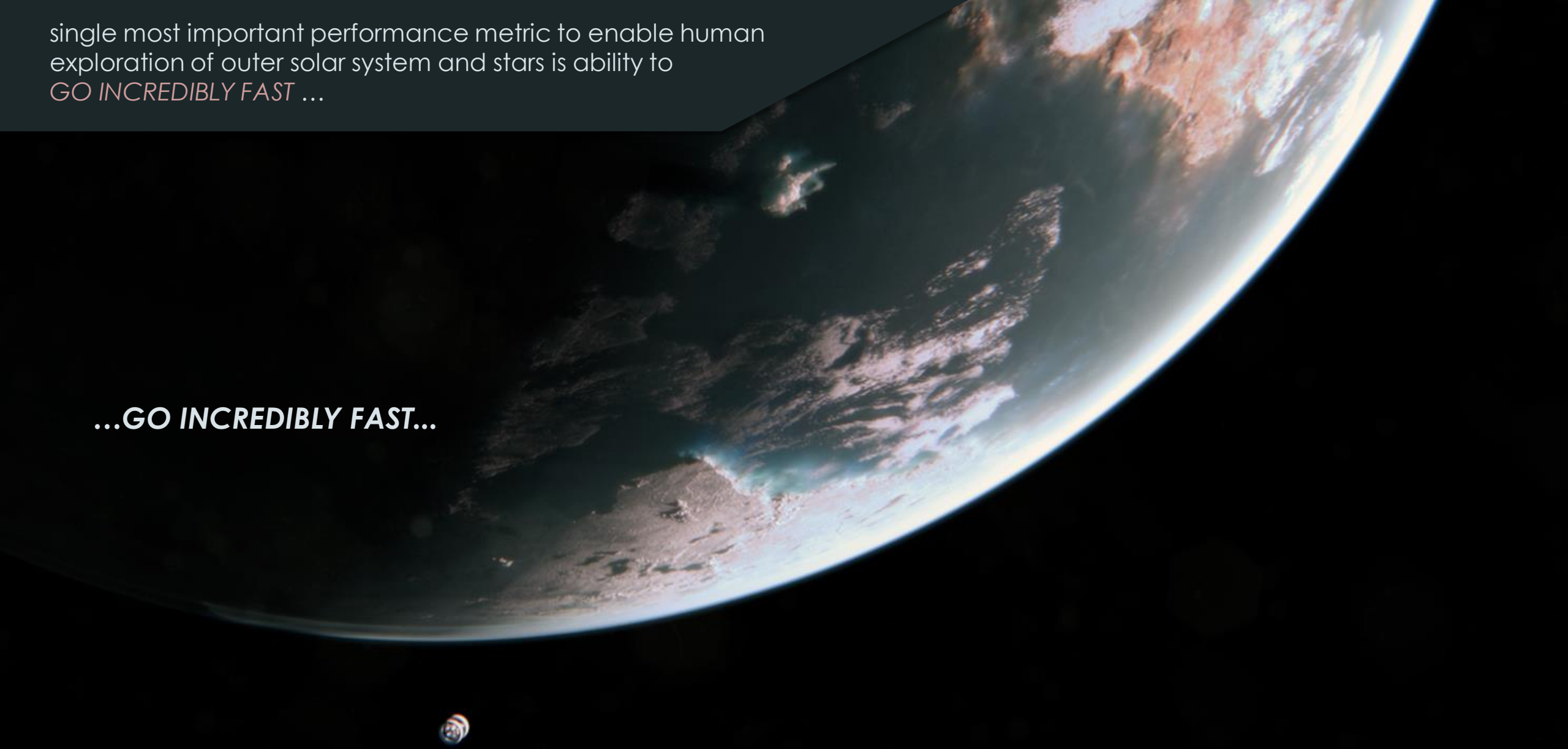
Core Values

Our core values are **integrity**, **courage**, and **imagination**

Our **B**ig **H**airy **A**udacious **G**oal:
Interstellar travel by the turn of the century

single most important performance metric to enable human exploration of outer solar system and stars is ability to *GO INCREDIBLY FAST* …

…GO INCREDIBLY FAST…

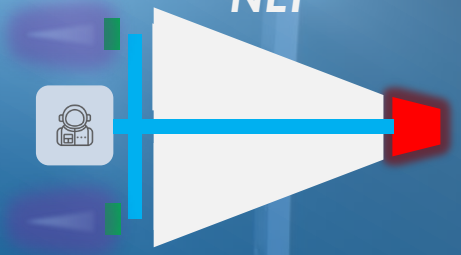


…this requires significant advances in power and propulsion systems.

IXS Enterprise arriving at Proxima Centauri b…

FISSION

NEP



POWER: 2-50 MW
1-25 LOCOMOTIVES

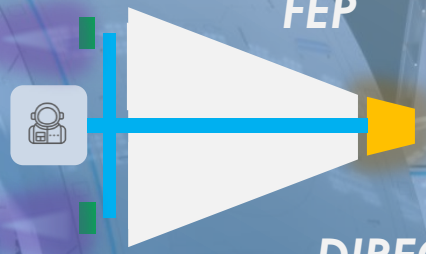
- ENABLES HUMAN EXPLORATION OF OUTER SOLAR SYSTEM
- ENABLES INTERSTELLAR PRECURSORS ~1000 AU

PHYSICS ✓

ENGINEERING ✓

FUSION

FEP



DIRECT FUSION

POWER: 50-500 MW
25-250 LOCOMOTIVES

- ENABLES FASTER HUMAN EXPLORATION OF OUTER SOLAR SYSTEM
- ENABLES SLOW INTERSTELLAR

PHYSICS ✓

ENGINEERING ?

BREAKTHROUGH

SPACEDRIVES
WORMHOLES
SPACE WARPS

POWER: >500 MW
>250 LOCOMOTIVES

- ENABLES FAST INTERSTELLAR

PHYSICS ?

ENGINEERING ?

LIMITLESS SPACE INSTITUTE

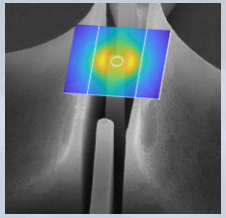
Programs

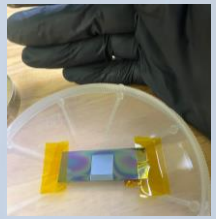
R&D for Interstellar Travel

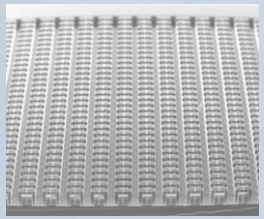
INTERNAL R&D

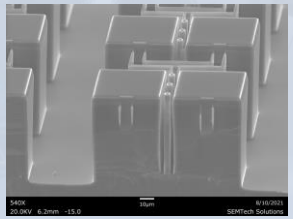
Eagleworks

DARPA DSO QUEST $1M grant to pursue R&D of dynamic vacuum model with power and propulsion applications









6000 cavity test article

EXTERNAL R&D

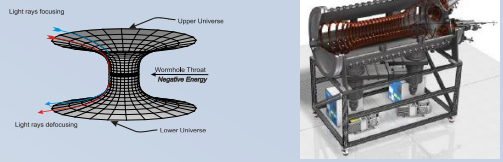
Interstellar Initiatives Grants

LSI initiated I2G to support external R&D of advanced power and propulsion concepts

Funded Topics:

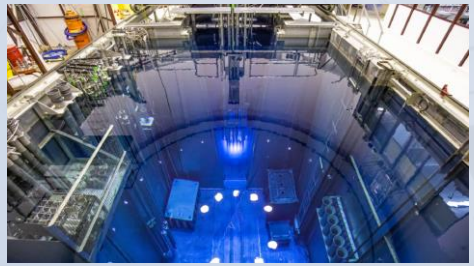
- Beamed Energy Propulsion
- Relativistic Solar Sails
- Fusion Propulsion
- Spacedrives
- Wormholes

I²G Partners



University Partnerships

Partner with universities to jointly pursue mutual areas of interest from leading edge of power & propulsion related physics to enable human exploration of the stars.



COLLABORATIVE R&D

LSI partnering with TAMU Nuclear Department to develop 1-10 MWe reactor for earth use, and adaptable for space use

Student Programs

Interns, graduate students, post-docs

Summer courses (seminar to graduate course)

2021 Summer Class:
Interstellar Studies:
The Human Exploration of the Far Solar System and on to the Stars

Week-long class for STEM students
July 26-30, 2021
Eventbrite registration available at:
https://www.eventbrite.com/e/interstellar-studies-summer-course-tickets-153690569631?aff=ebdsoporgprofile

I4IS commissioned to develop class material and teach inaugural class

Education Outreach

Externally inspire and educate next generation on interstellar R&D through speaking engagements

"Infinite possibilities come to those who believe"

Massachusetts Institute of Technology

UCSB

energy

UCDAVIS
UNIVERSITY OF CALIFORNIA

HELICITY SPACE

Caltech

LIMITLESS
SPACE INSTITUTE

TECHNION
Israel Institute
of Technology

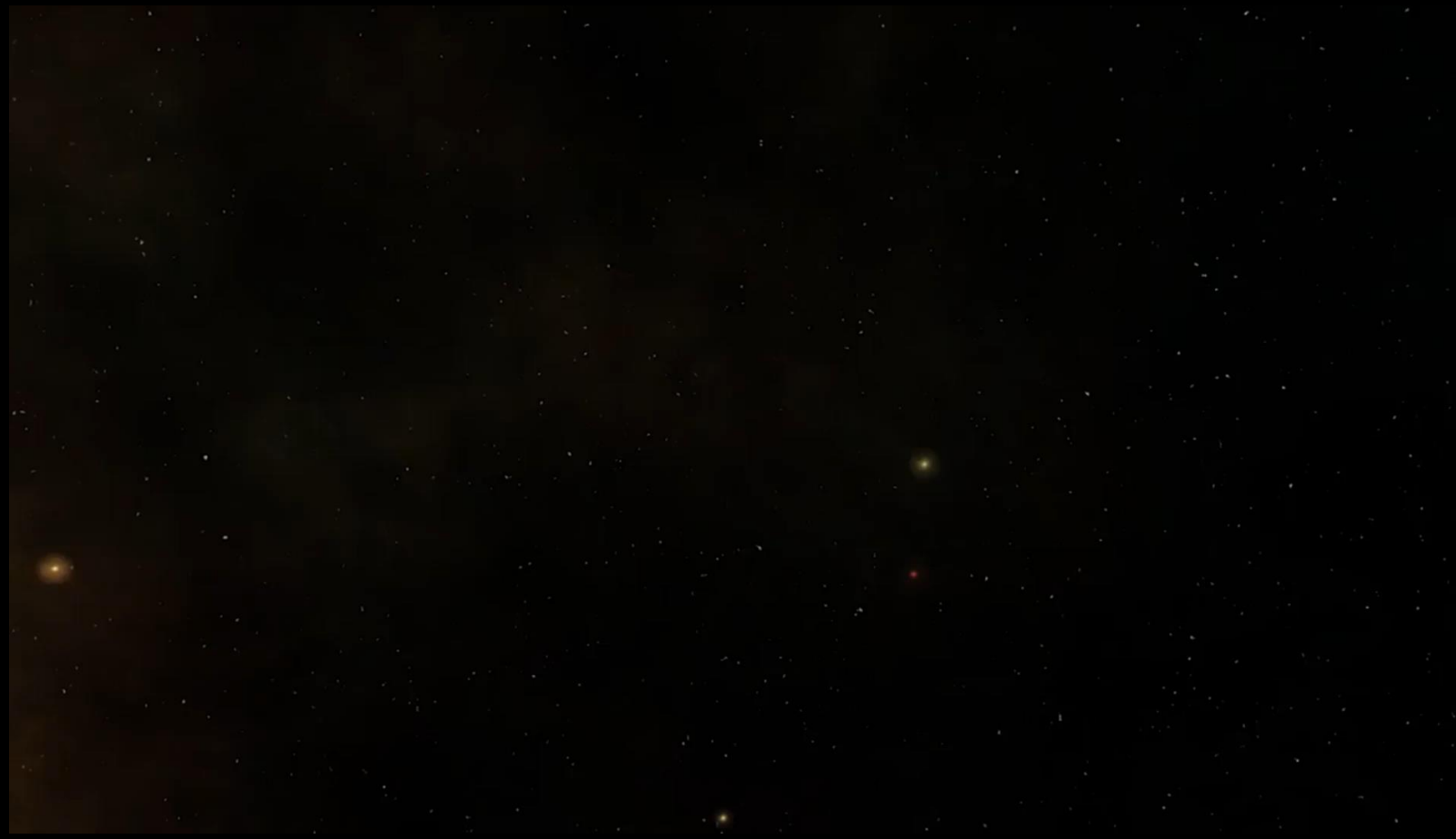
aws

AXIOM
SPACE

INTUITIVE
MACHINES

IZENTIS LLC

THE UNIVERSITY OF
ALABAMA IN HUNTSVILLE



Godspeed!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Galileo
IXL-01
GODSPEED!